

Comparisons of Job Characteristics

Focus Occupation: Natural Sciences Managers (11-9121)
Associated Occupation: Conservation Scientists (19-1031)

Compare Knowledge
 Compare Skills
 Compare Abilities
 Compare Detailed Work Activities
 Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 63

Focus Occupation: Natural Sciences Managers (11-9121)
Associated Occupation: Conservation Scientists (19-1031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Biology	3.7	16.2	11.8	<<	Extensive education and/or training may be required
Geography	3.9	14.3	5.9	<<	Extensive education and/or training may be required
Law and Government	5.9	11.4	12.1	0	Current knowledge level may be sufficient
History and Archeology	2.6	9.0	3.4	<<	Extensive education and/or training may be required
Food Production	2.1	5.5	1.4	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Natural Sciences Managers (11-9121)
Associated Occupation: Conservation Scientists (19-1031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Science	4.5	9.3	15.7	>>	Skill level is likely more than sufficient
Systems Analysis	6.5	9.3	9.9	0	Current skill level may be sufficient
Operations Analysis	5.0	9.0	13.6	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Natural Sciences Managers (11-9121)
Associated Occupation: Conservation Scientists (19-1031)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Oral Expression	12.4	14.7	16.5	>	Current ability level is likely sufficient
Oral Comprehension	12.5	14.0	17.8	>>	Current ability level is likely more than sufficient
Written Comprehension	11.0	13.7	16.0	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	13.0	12.5	0	Current ability level may be sufficient
Speech Clarity	10.2	12.7	15.4	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	12.6	15.5	>	Current ability level is likely sufficient
Inductive Reasoning	10.2	12.2	14.8	>	Current ability level is likely sufficient
Written Expression	9.8	12.1	14.4	>	Current ability level is likely sufficient
Speech Recognition	9.9	12.0	12.6	0	Current ability level may be sufficient
Far Vision	7.8	10.5	6.1	<<	Extensive improvement in abilities may be required
Originality	7.6	10.1	12.0	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Natural Sciences Managers (11-9121)
Associated Occupation: Conservation Scientists (19-1031)

Work Activities	Exclusivity of Activity
Adhere to safety procedures	12
Advise clients or customers	19
Analyze operational or management reports or records	62
Analyze scientific research data or investigative findings	27
Assign work to staff or employees	30
Communicate technical information	4
Conduct training for personnel	30
Confer with scientists	54
Develop budgets	56
Develop plans for programs or projects	31
Develop policies, procedures, methods, or standards	21
Explain complex mathematical information	30
Make presentations	13
Oversee execution of organizational or program policies	49
Prepare reports	8
Resolve engineering or science problems	46

Use library or online Internet research techniques	21
Use project management techniques	47
Use public speaking techniques	13
Use scientific research methodology	21
Write research or project grant proposals	33

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 93

Focus Occupation: Natural Sciences Managers (11-9121)
Associated Occupation: Conservation Scientists (19-1031)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Cameras	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1
Land surveying instruments	19
Network applications software	1
Sampling equipment	12
Soil measuring equipment	20

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.